



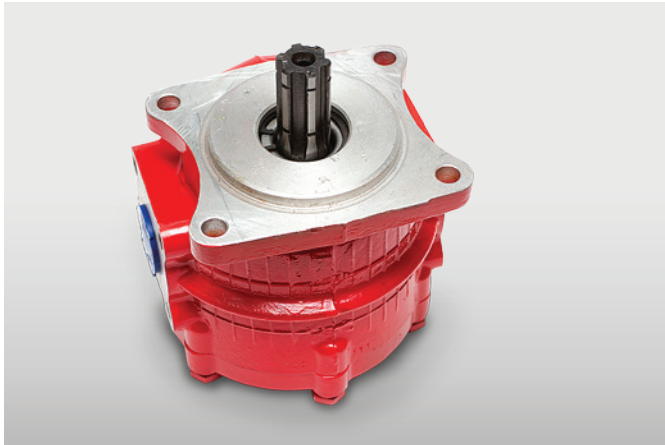
## Experts in hydraulic applications

Speed, position and temperature monitoring



Hydraulic pumps  
Hydraulic motors  
Agricultural machinery  
Construction equipment  
Forestry equipment  
Mining equipment  
Utility vehicles  
Forklifts

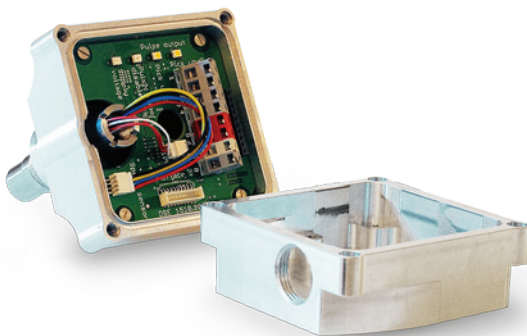
ISO/TS 16949



MOTORS AND PUMPS

Optimisation of flowrate

- High accuracy
- One hole = three functions (speed, direction, temperature)
- High pressure rating up to 600 bar
- Bi-directional flow measurement
- Temperature of medium up to 180° C



Motor control/pumps

- Speed measurement of hydraulic motors and pumps
- From zero up to 40 kHz
- Up to IP69K



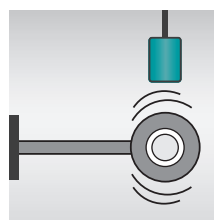
POSITIONING

Position sensor

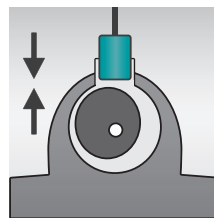
Contactless, intelligent eddy current or optical position sensor, specially designed for accurate position measurement in swash plate or other applications.

- Programmable
- With teach-in function for setup
- No permanent magnet
- Various outputs possible, analogue and digital
- Variable geometry for pump adjustment

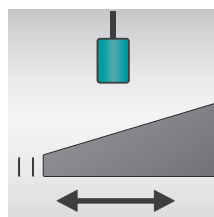
Measuring horizontal or vertical movements



Deflection  
Vibrations



Bearing vibration  
Wear



Position  
Distance  
Displacement



## SYNCHRONISATION

### Traction control

Ensure constant grip of all wheels of heavy-duty mining vehicles by implementing a JAQUET speed sensing solution.

Our sensors provide the precise signal needed by mining vehicle controls thus helping to eliminate wheel slip and ensuring safe movement and braking.

### Load sensing systems

JAQUET speed sensors detect the individual speed of hydraulically powered wheels (e.g. in a forklift) for better control of steering, direction and overall speed.

Creep detection on cranes ensures a safe workplace. Our speed sensors provide the critical control signals needed to safely and efficiently move loads.



## VARIETY OF SOLUTIONS

### JAQUET's own ASIC

The JAQUET ASIC was specially developed to meet the high technical demands of the hydraulics market.



### Advanced electronics

- True zero speed performance
- One to four channels
- Frequency doubling
- Sense of direction
- Wide supply voltage range (4, 6 to 32 VDC)
- Flexibility in output configurations
- Speed, direction and temperature combination sensors

### Advanced mechanical design

- Mechanical stability
- High pressure solutions (consistent values)
- Flexible size; from small and short (9-12 mm diameter, length from 26 mm) to heavy duty housing solutions
- Versatile mechanical configurations (connector, short cable with connector (pigtail) or a cable-matched to your application)

## Swiss know-how and quality matched to your demands

JAQUET manufactures speed sensors in quantities from 1 to 200,000 per project per year. These typically customer specific solutions add value through being matched to individual applications.

**Since 1889, a spirit of excellence complementing tradition and innovation.**



### Automotive turbochargers

Turbocharger for trucks, passenger cars, construction equipment

- Speed of VG/VNT turbochargers
- Gearbox shaft and retarder speed



### Railway systems

- Optimum traction control
- WSP (wheel slide protection) systems
- Speed information for automatic train control



### Power generation

Gas, hydro, steam and wind turbines

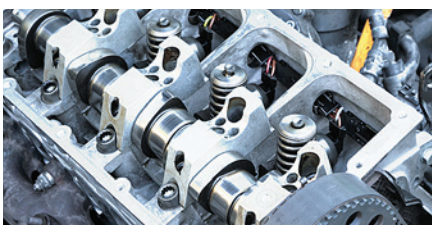
- Overspeed protection
- Speed measurement and control



### Hydraulics

Agricultural machinery, construction and mining equipment, cranes, ROV – remote operated vehicles

- Motors and pumps, flowrate measurement
- Position measurement, traction synchronization



### Diesel and gas engines

Large diesel and gas engines in marine, rail, off-road applications and power production.

- Cam and crank shaft for dynamic position
- Turbocharger speed, engine diagnostics

#### Quality systems

ISO TS 16949  
ISO 9001  
AS 9100  
IRIS



### Worldwide and local to you through

JAQUET Technology sales offices, subsidiaries and distributors.